

# UTAH DEPARTMENT OF TRANSPORTATION

TECHNICAL BULLETIN MT

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# ASPHALT SURFACING MATERIALS- TYPICAL APPLICATION RATES

A designer should have a basic knowledge of how the various paving materials are placed in construction so they can correctly determine the correct paving quantities.



The information provided herein is approximate and for estimating purposes only; typical values have been assumed and any values may change considerably for a specific location. You should verify the unit weights with the Region Materials Engineer.

# **Surface Treatments**

1. Open-Graded Surface Course

Weight: 135 lb/ft<sup>3</sup>

Asphalt: PG Binder, 6.25%

2. Chip Seal Coat

Emulsion: CRS-2, CRS-2P, LMCRS-2, HFMS-2, HFMS-2P

0.35 gal/yd<sup>2</sup> (New Pavement) 0.45 gal/yd<sup>2</sup> (Milled Pavement)

3. Prime Coat

Cut-Back: MC-70 or MC-250

 $0.5 \text{ gal/yd}^2$ 

4 Tack Coat

Emulsion: CSS-1, CSS-1H, SS-1, SS-1H (diluted 2 parts emulsion to 1 part water)

0.10 gal/yd<sup>2</sup> (New Pavement) 0.15 gal/yd<sup>2</sup> (Milled Pavement)

5. Flush Coat

Emulsion: CSS-1, CSS-1H, SS-1, SS-1H, HFMS-2P (diluted 2 parts emulsion to 1 part water)

 $0.12 \text{ gal/yd}^2$ 



# **B. Surface Courses**

1. Hot Mix Asphalt

Weight: 152 lb/ft<sup>3</sup>

Asphalt: 5.20% of total wet weight

# C. Base Courses

1. Lean Concrete Base: bid by square yard, @ 4 inch thick

2. Untreated Base Course

Weight: 138 lb/ft<sup>3</sup>

3. Granular Borrow

Weight: 133 lb/ft<sup>3</sup>

## **FURTHER INFORMATION**

UDOT Standard Specification 02745, Asphalt Materials Asphalt Institute Manual Series No. 19, "A Basic Emulsion Manual" Asphalt Institute Manual Series No. 4, "The Asphalt Handbook"

## **UDOT CONTACTS**

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